

FIG.1

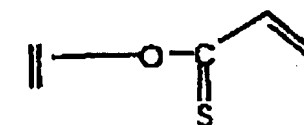
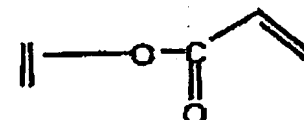
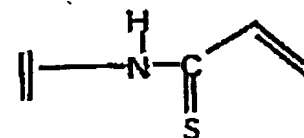
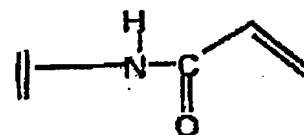
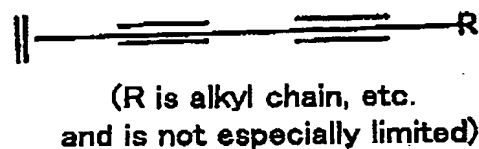
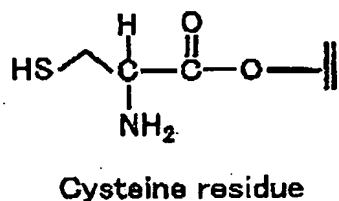
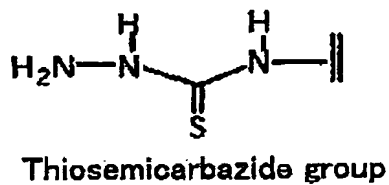
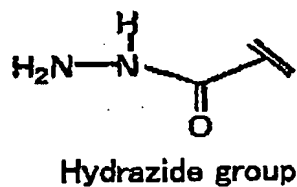
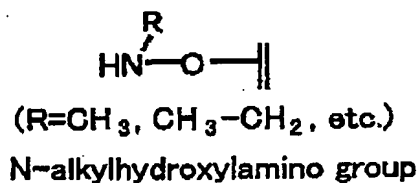
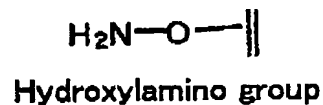
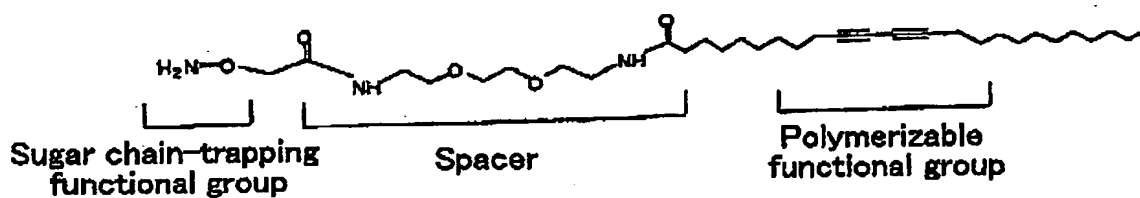
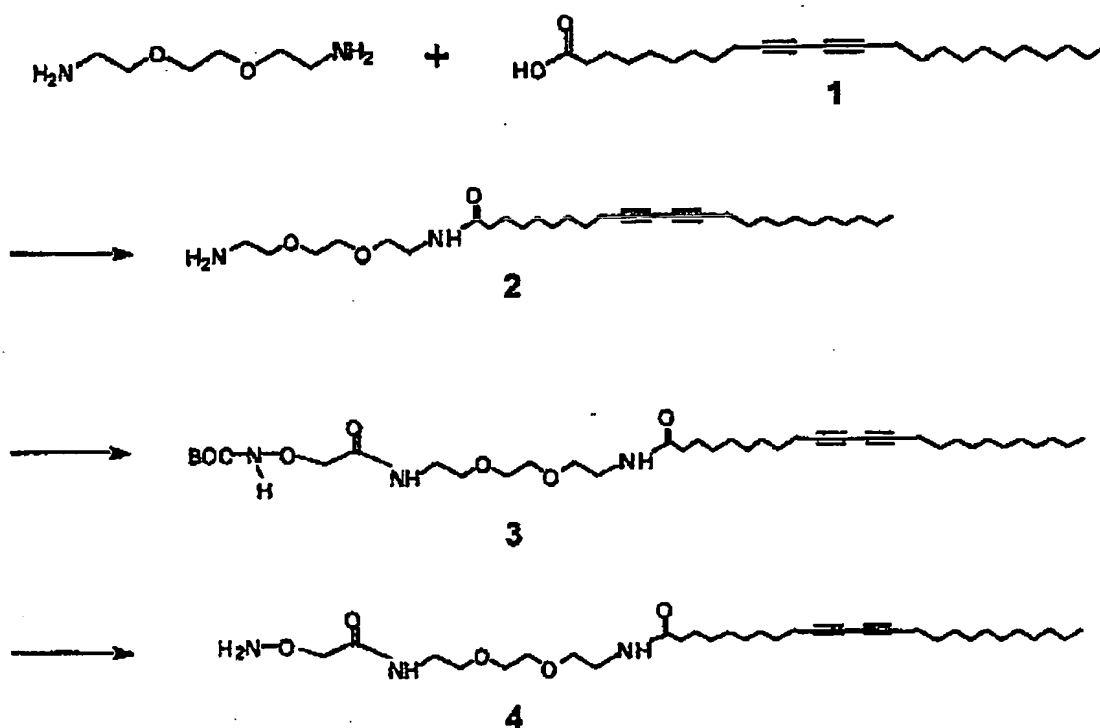
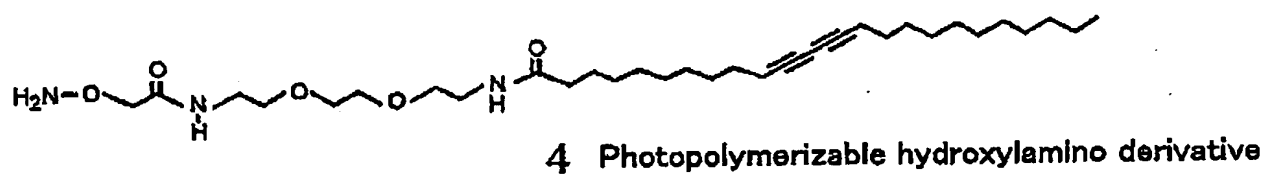


FIG.2

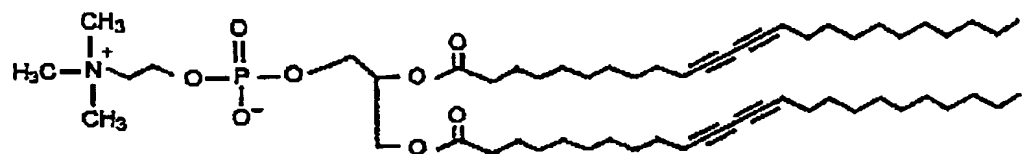


Scheme 1: Synthesis path to photopolymerizable hydroxylamino derivative

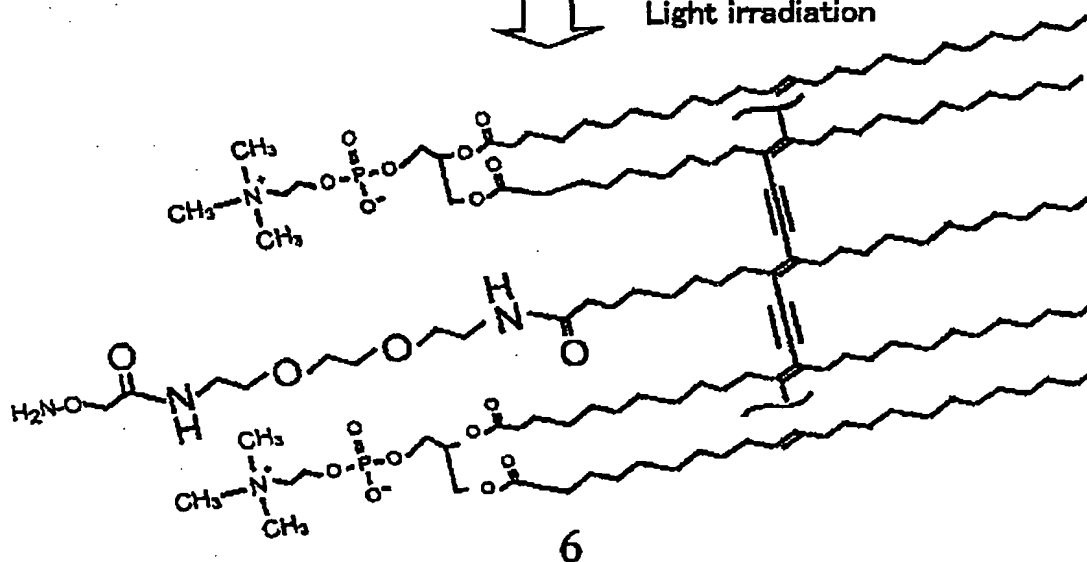
FIG.3



+

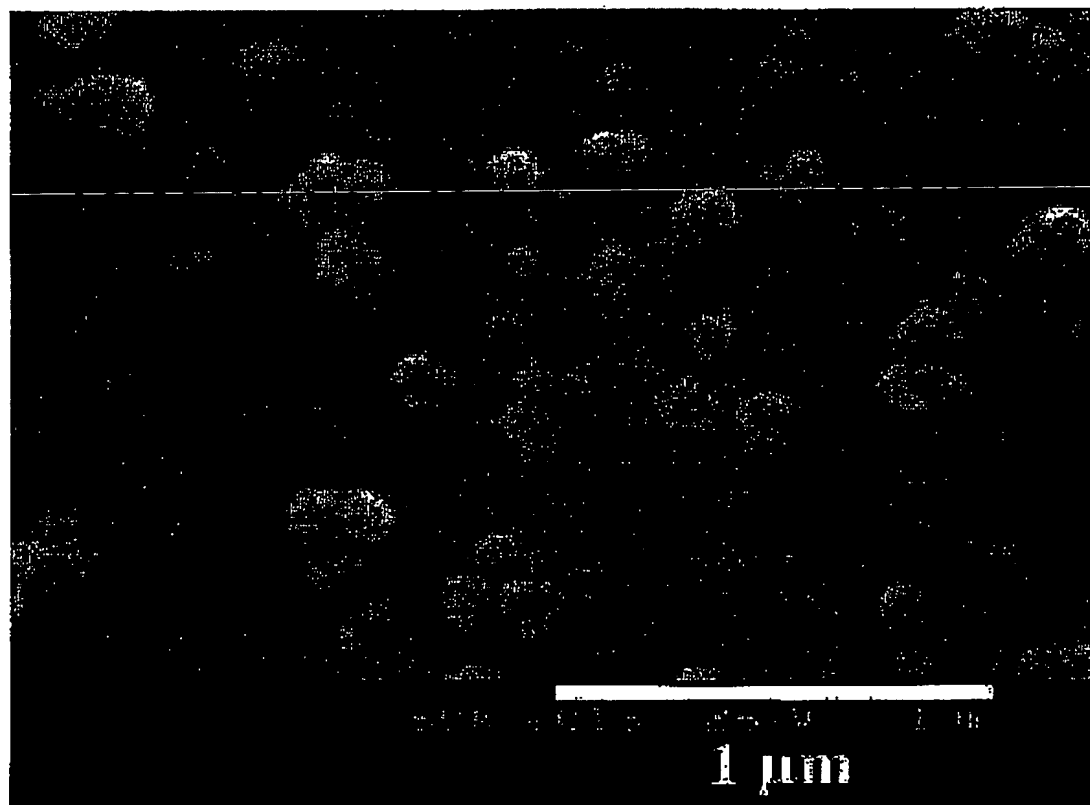


Light irradiation



Example of sugar chain-trapping polymer

FIG.4



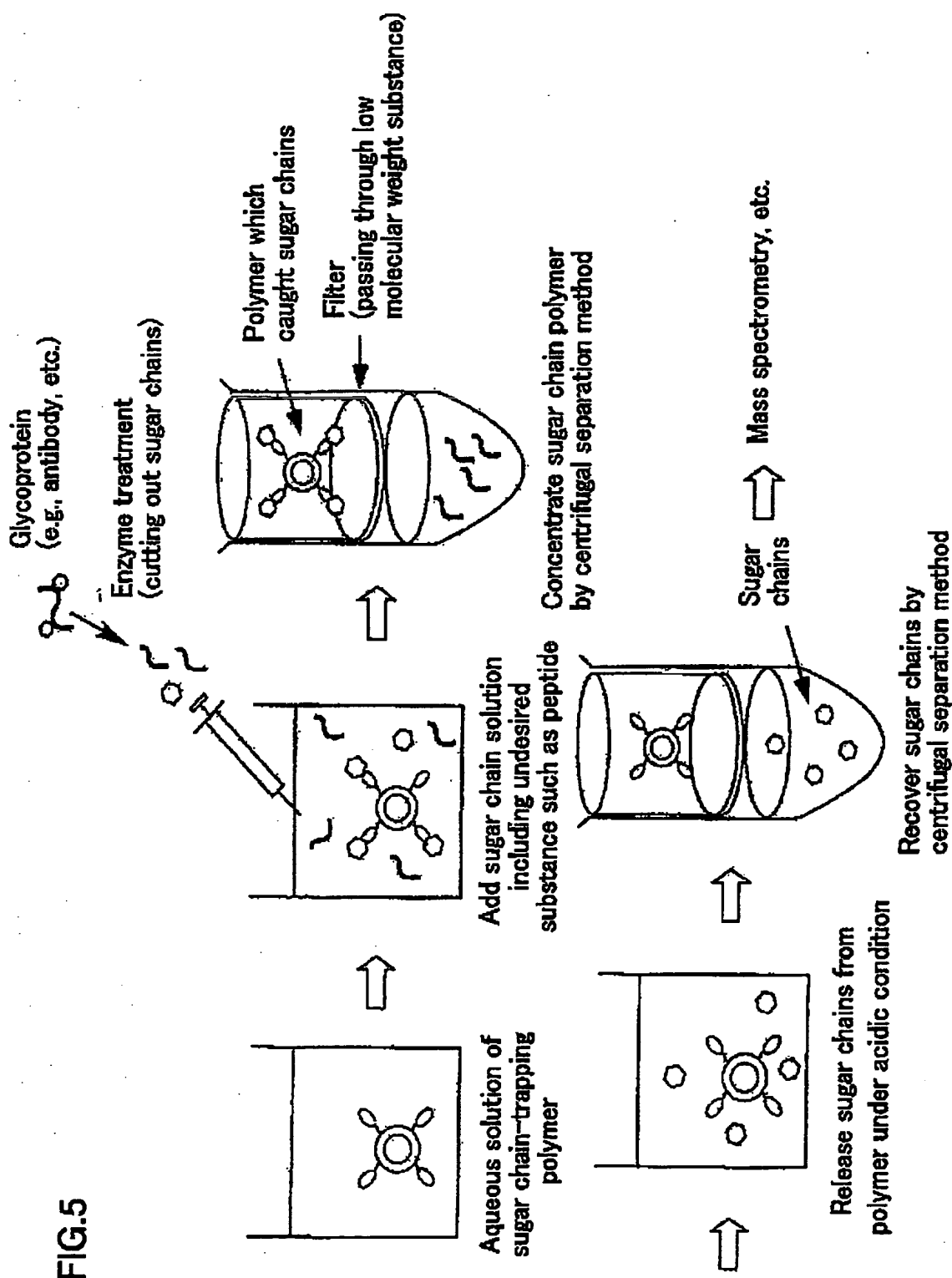
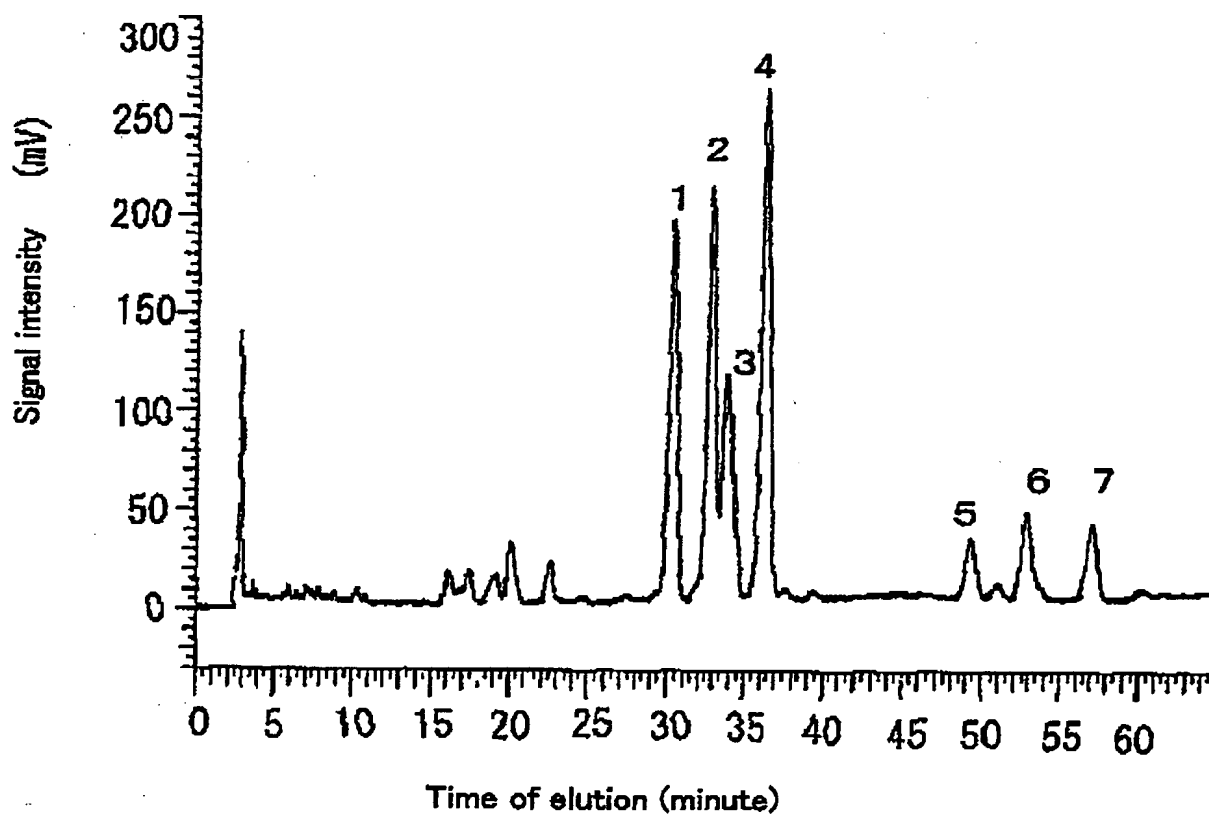
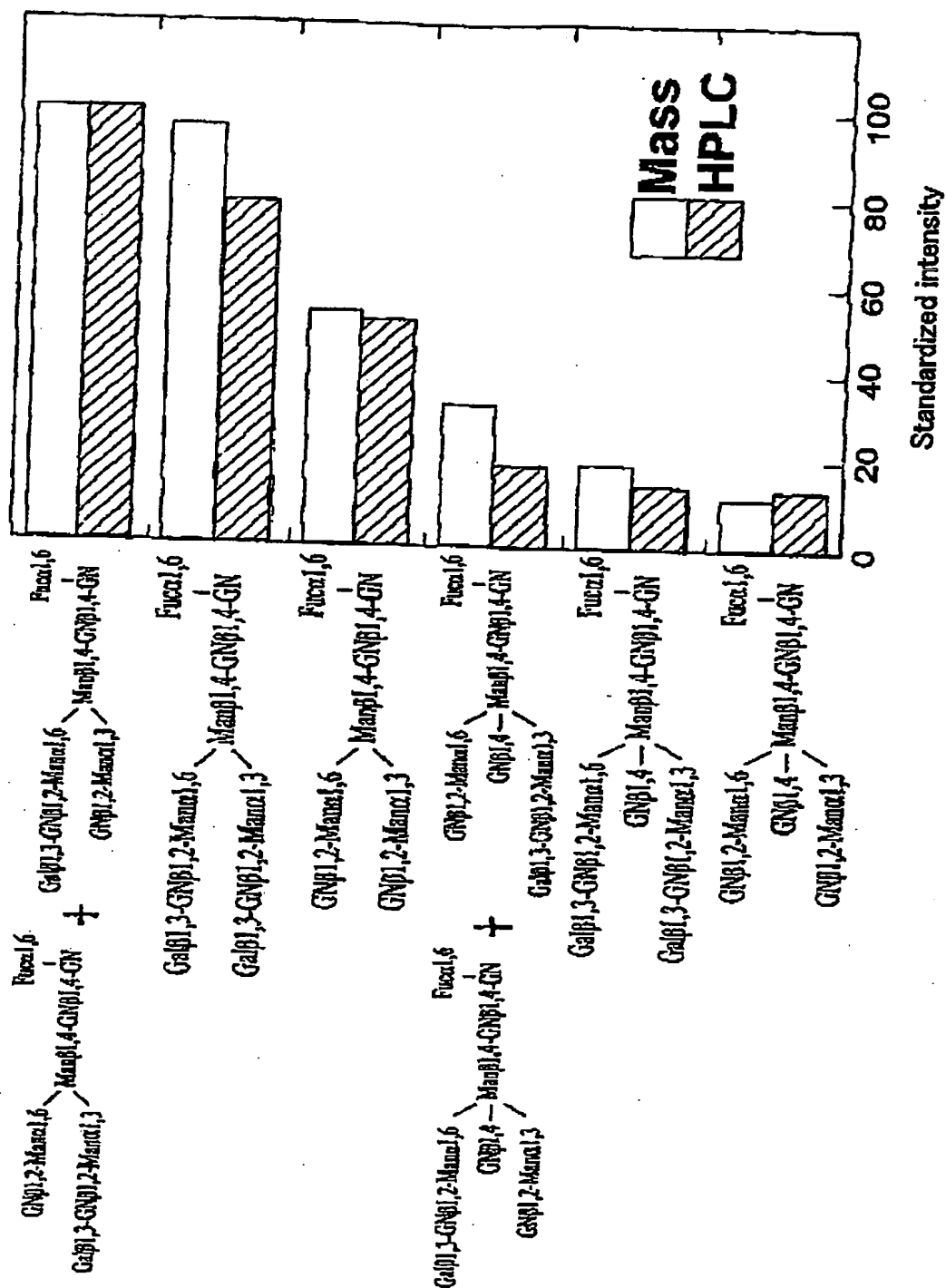


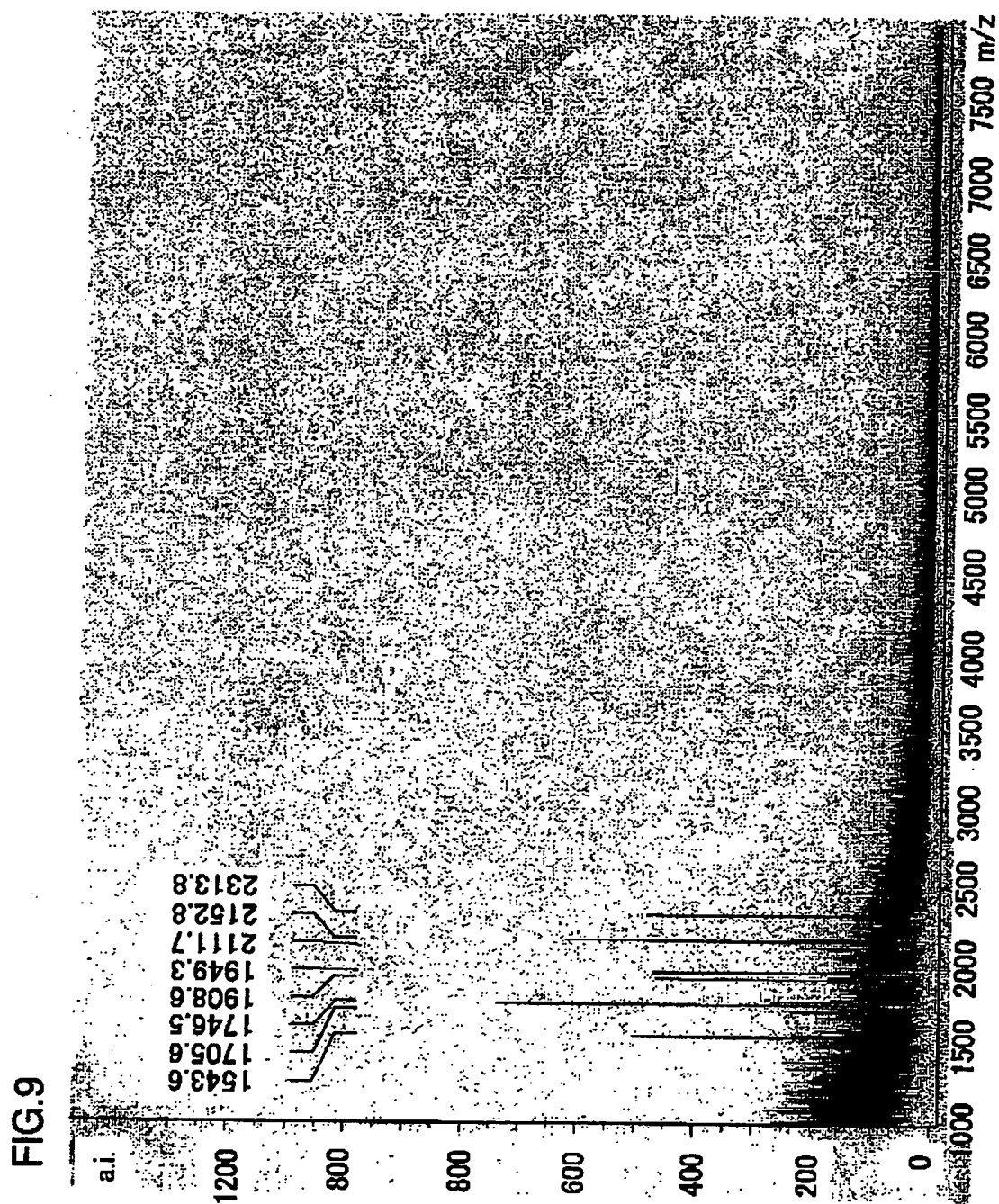
FIG.6

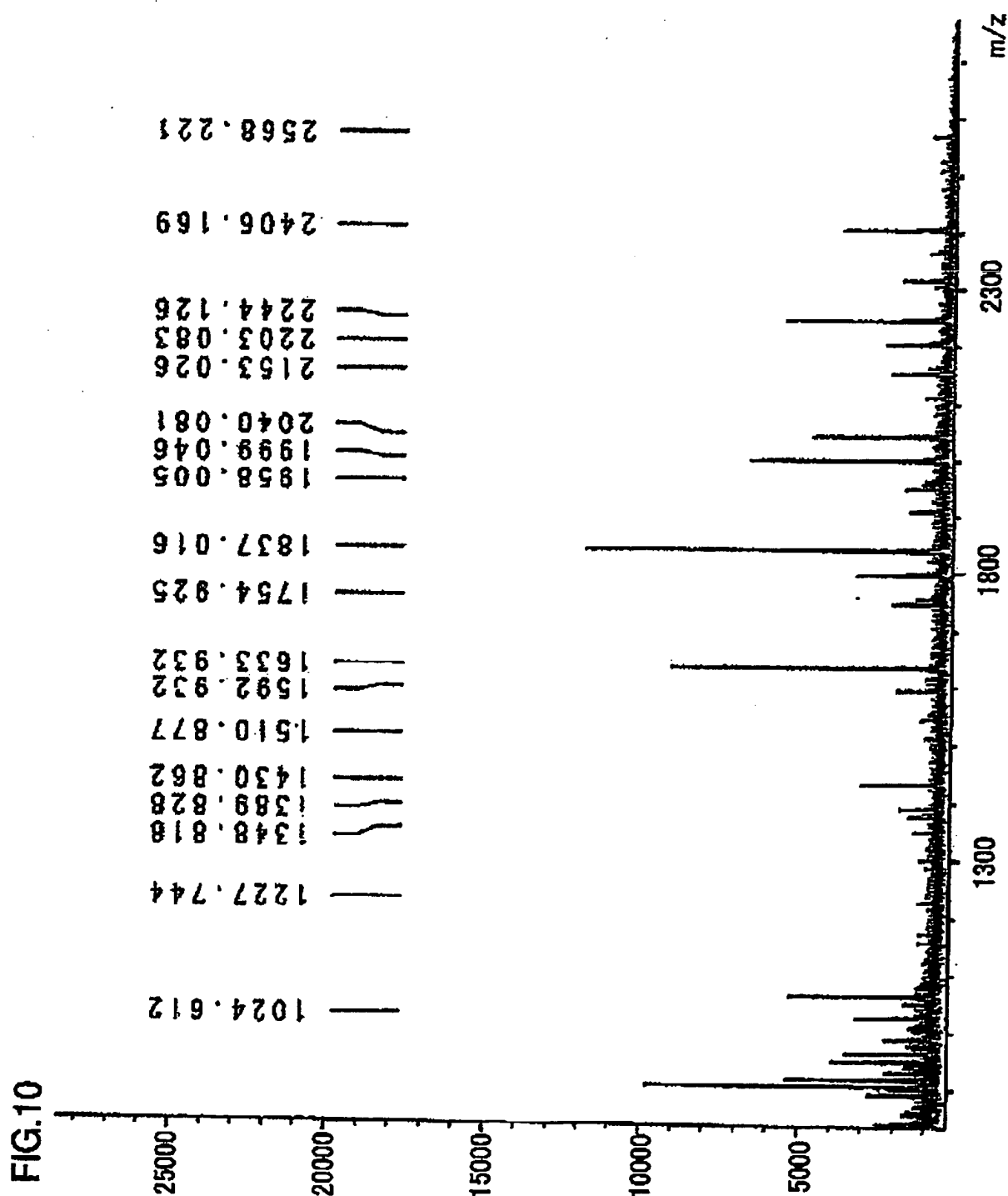


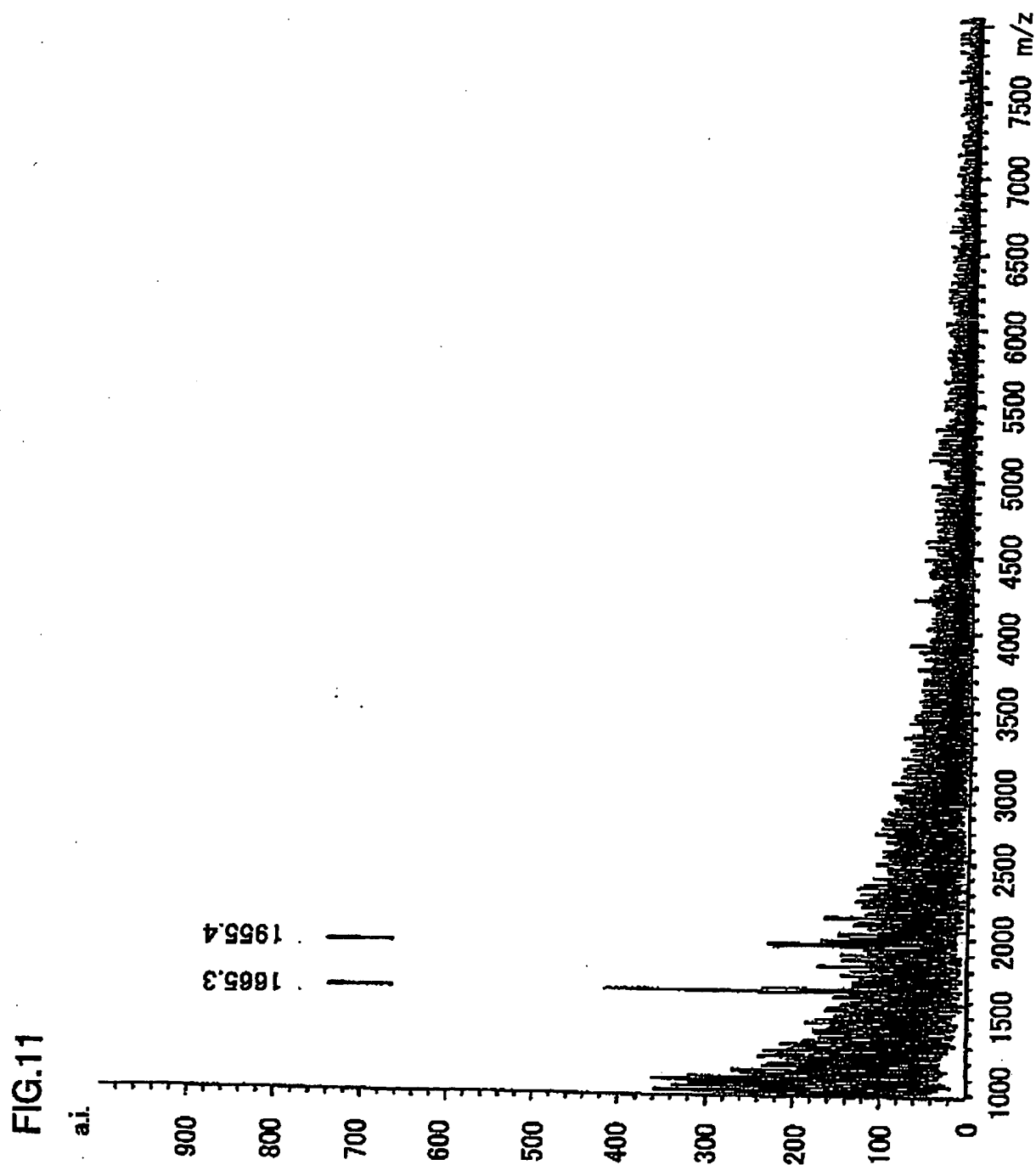
Peak number	Sugar chain structure	Proportion (%)
1	$ \begin{array}{c} \text{GN}\beta 1, 2\text{-M}\alpha 1, 6 \\ \text{GN}\beta 1, 2\text{-M}\alpha 1, 3 \end{array} \begin{array}{c} \diagup \\ \diagdown \end{array} \begin{array}{c} \text{F}\alpha 1, 6 \\ \text{M}\beta 1, 4\text{-GN}\beta 1, 4\text{-GN} \end{array} $	19
2	$ \begin{array}{c} \text{G}\beta 1, 3\text{-GN}\beta 1, 2\text{-M}\alpha 1, 6 \\ \text{GN}\beta 1, 2\text{-M}\alpha 1, 3 \end{array} \begin{array}{c} \diagup \\ \diagdown \end{array} \begin{array}{c} \text{F}\alpha 1, 6 \\ \text{M}\beta 1, 4\text{-GN}\beta 1, 4\text{-GN} \end{array} $	22
3	$ \begin{array}{c} \text{GN}\beta 1, 2\text{-M}\alpha 1, 6 \\ \text{G}\beta 1, 3\text{-GN}\beta 1, 2\text{-M}\alpha 1, 3 \end{array} \begin{array}{c} \diagup \\ \diagdown \end{array} \begin{array}{c} \text{F}\alpha 1, 6 \\ \text{M}\beta 1, 4\text{-GN}\beta 1, 4\text{-GN} \end{array} $	15
4	$ \begin{array}{c} \text{G}\beta 1, 3\text{-GN}\beta 1, 2\text{-M}\alpha 1, 6 \\ \text{G}\beta 1, 3\text{-GN}\beta 1, 2\text{-M}\alpha 1, 3 \end{array} \begin{array}{c} \diagup \\ \diagdown \end{array} \begin{array}{c} \text{F}\alpha 1, 6 \\ \text{M}\beta 1, 4\text{-GN}\beta 1, 4\text{-GN} \end{array} $	28
5	$ \begin{array}{c} \text{GN}\beta 1, 2\text{-M}\alpha 1, 6 \\ \text{GN}\beta 1, 4\text{-M}\beta 1, 4\text{-GN}\beta 1, 4\text{-GN} \\ \text{GN}\beta 1, 2\text{-M}\alpha 1, 3 \end{array} \begin{array}{c} \diagup \\ \diagdown \end{array} \begin{array}{c} \text{F}\alpha 1, 6 \\ \text{M}\beta 1, 4\text{-GN}\beta 1, 4\text{-GN} \end{array} $	4
6	$ \begin{array}{c} \text{G}\beta 1, 3\text{-GN}\beta 1, 2\text{-M}\alpha 1, 6 \\ \text{GN}\beta 1, 4\text{-M}\beta 1, 4\text{-GN}\beta 1, 4\text{-GN} \\ \text{GN}\beta 1, 2\text{-M}\alpha 1, 3 \\ \text{及 } \zeta \\ \text{GN}\beta 1, 2\text{-M}\alpha 1, 6 \\ \text{GN}\beta 1, 4\text{-M}\beta 1, 4\text{-GN}\beta 1, 4\text{-GN} \\ \text{G}\beta 1, 3\text{-GN}\beta 1, 2\text{-M}\alpha 1, 3 \end{array} \begin{array}{c} \diagup \\ \diagdown \end{array} \begin{array}{c} \text{F}\alpha 1, 6 \\ \text{M}\beta 1, 4\text{-GN}\beta 1, 4\text{-GN} \end{array} $	7
7	$ \begin{array}{c} \text{G}\beta 1, 3\text{-GN}\beta 1, 2\text{-M}\alpha 1, 6 \\ \text{GN}\beta 1, 4\text{-M}\beta 1, 4\text{-GN}\beta 1, 4\text{-GN} \\ \text{G}\beta 1, 3\text{-GN}\beta 1, 2\text{-M}\alpha 1, 3 \end{array} \begin{array}{c} \diagup \\ \diagdown \end{array} \begin{array}{c} \text{F}\alpha 1, 6 \\ \text{M}\beta 1, 4\text{-GN}\beta 1, 4\text{-GN} \end{array} $	5

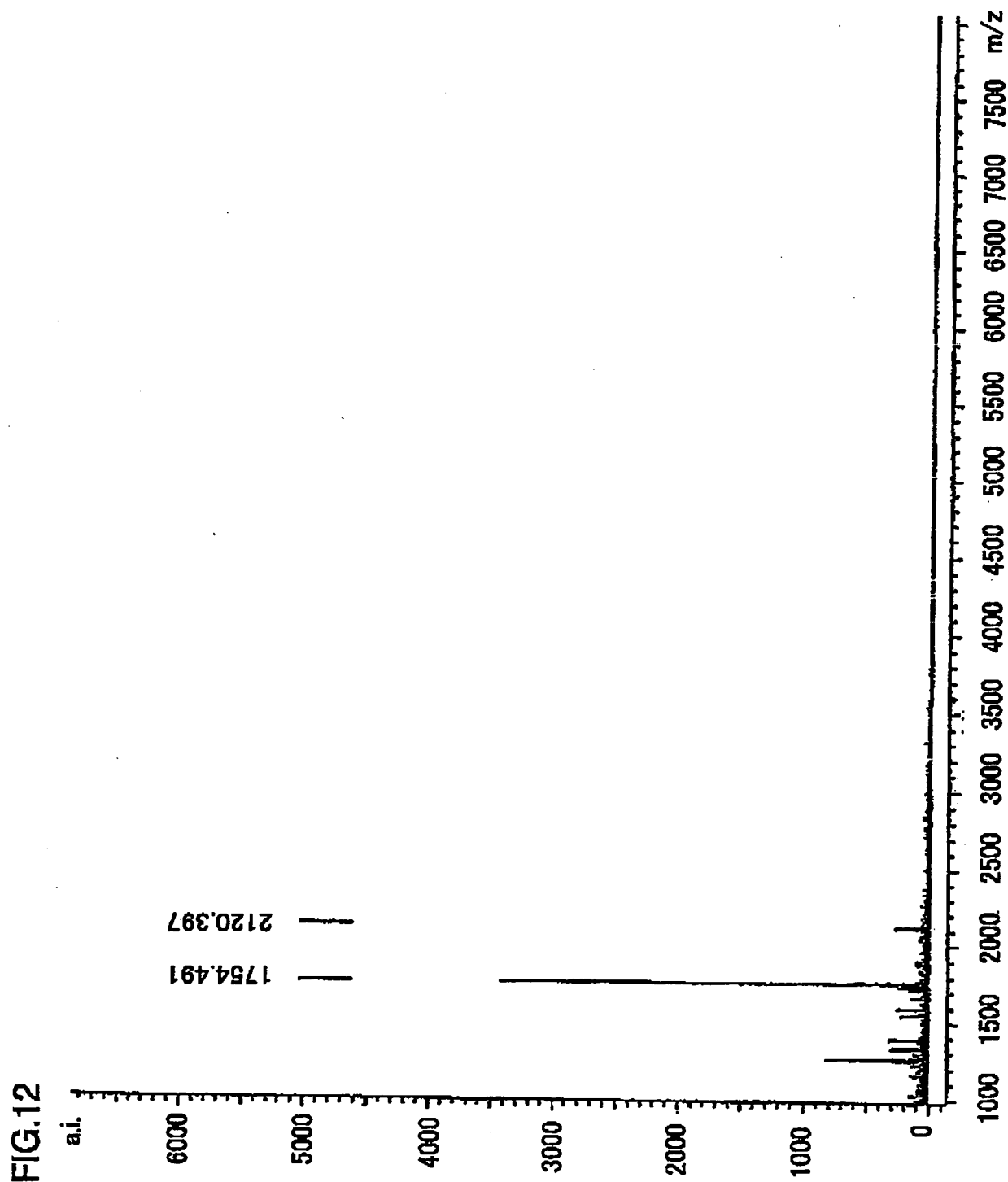
FIG.8

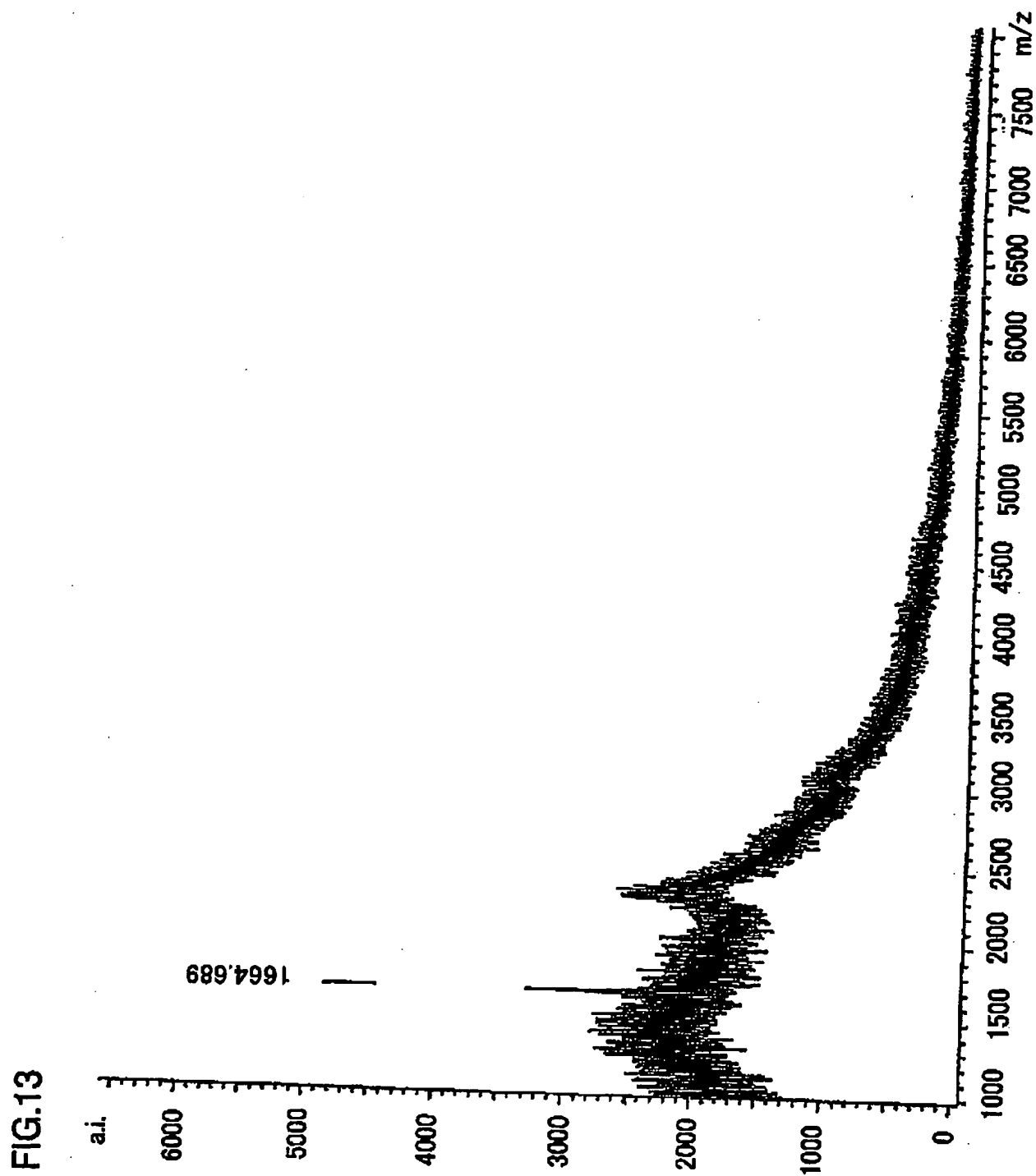












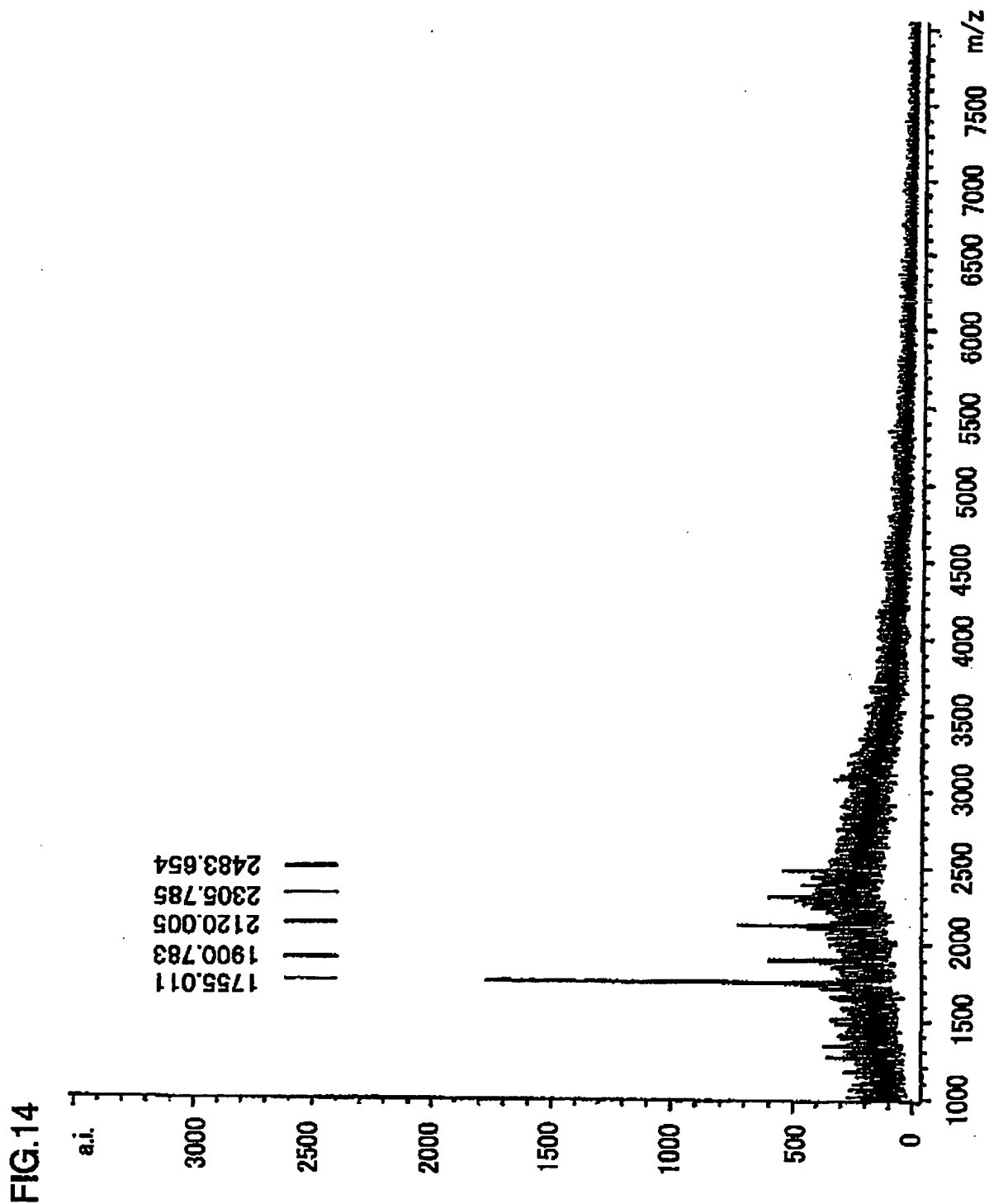


FIG.15

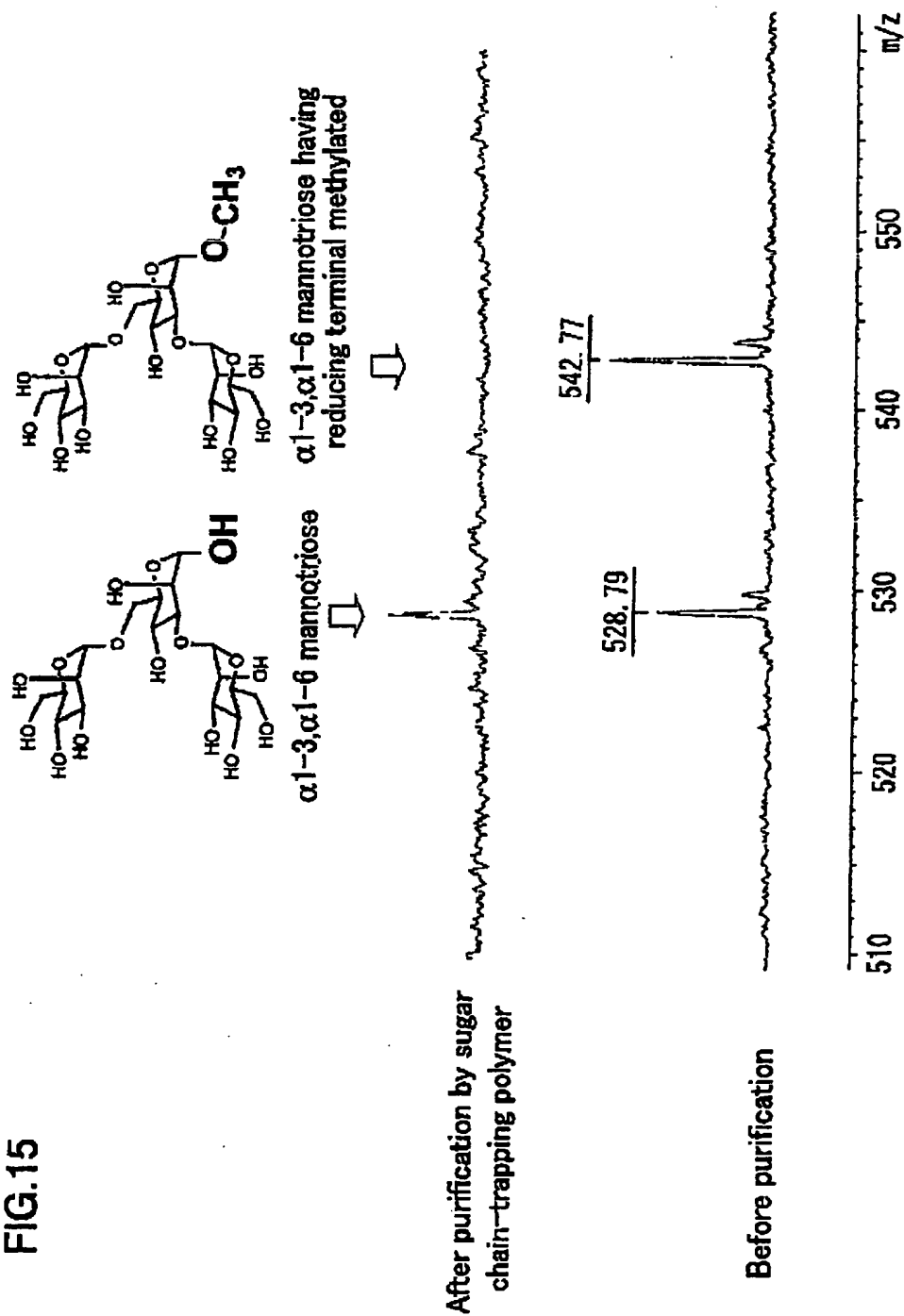
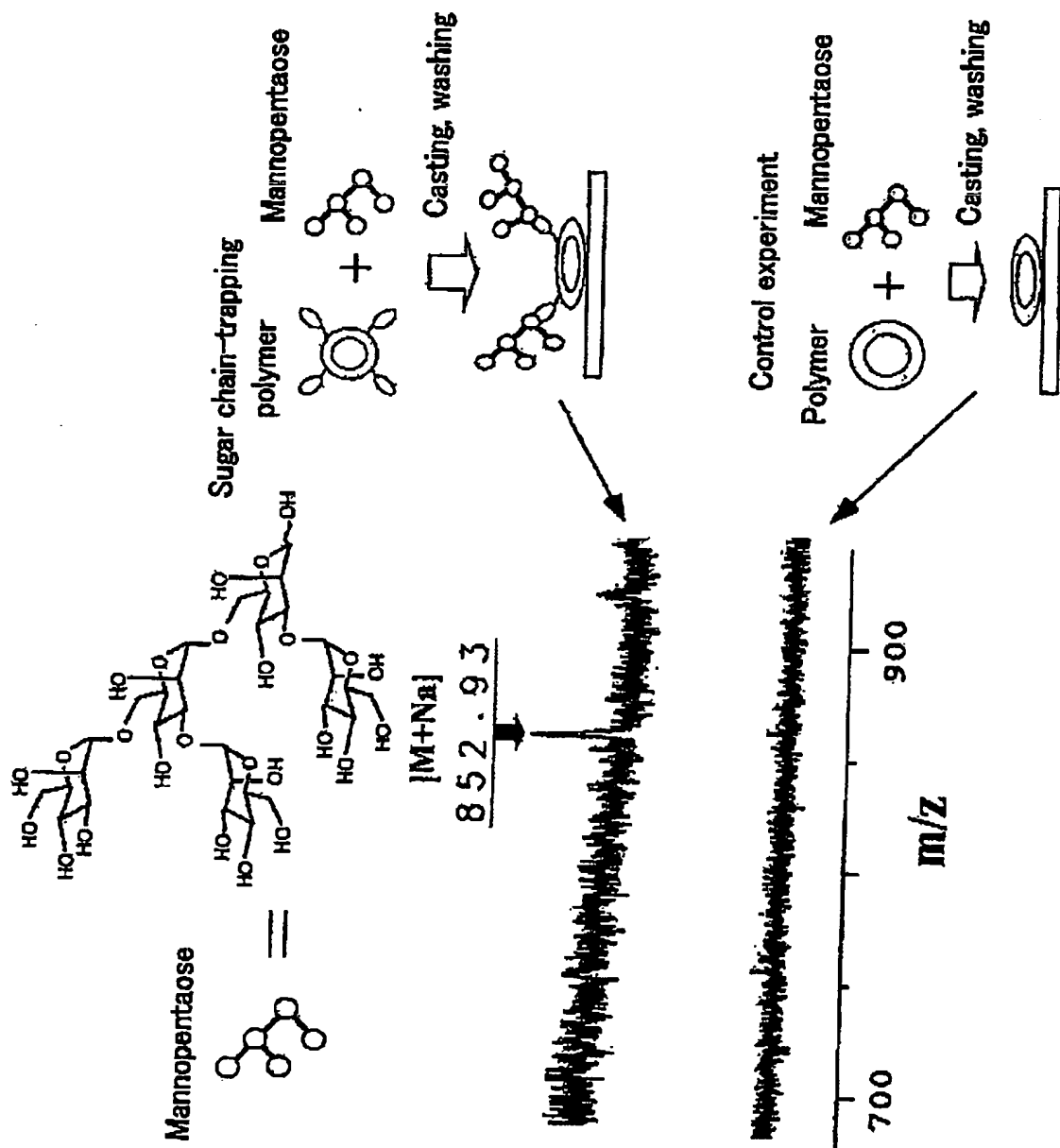


FIG.16



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